

àolf5 Kiseleva, T. M. USSR/Chemistry - Plastics Jan 53 "The Relationship Between the Structure and the Ability to Polymerize in Vinyl Derivatives of Naphthalene," M.M. Koton and T.M. Kiseleva Leningrad Physicotech Inst, Acad Sci USSR DAN SSSR, Vol 88, No 3, pp 465, 466 1-vinylnaphthalene, 2-vinylnaphthalene, 6-vinyl-1,2,3,4-tetrahydronaphthalene, and vinyl-decahydronaphthalene were prepd and the process of their polymerization studied. On the basis of these compds, it was demonstrated that by increasing the no of double bonds in the mol, the no of conjugates 261175 is increased. This leads to a greater redistribution of the electron atm which enables the double bond in the vinyl group to open up, thus enhancing polymerization. Presented by Acad A.V. Topchiyev 6 Nov 52/

USSR/Chemistry - Physical chemistry

Card 1/2 | Pub. 147 - 7/27

Abstract

Authors : Koton, M. N.; Kiseleva, T. N.; and Bessonov, H. I.

Title : Radical polymerization of styrene investigated by the marked atom.

method

Periodical : Zhur. fiz. khim. 28/12, 2137-2141, Dec 1954

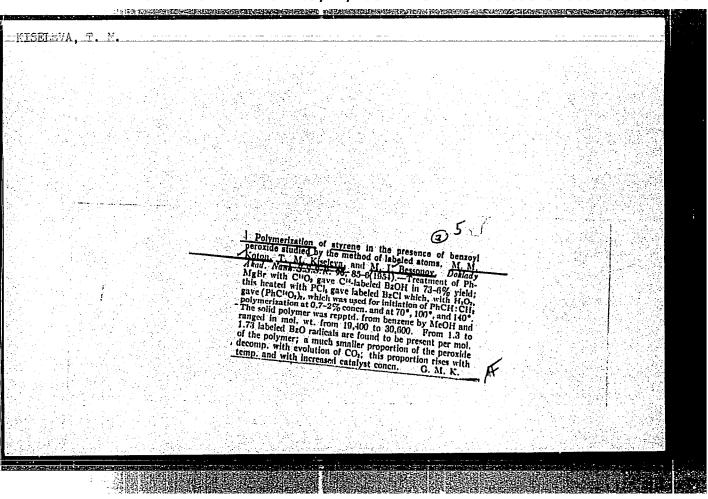
A study of styrene polymerization by means of marked atoms showed that benzoyl peroxide decomposes during the polymerization of styrene in mass forming C6H5COO radicals, a majority of which attaches itself to the polymer. The benzoate C6H5COO radicals are considered as the basic polymerization initiators. The separation of polymer chains during styrene polymerization in the presence of benzoyl peroxide takes place by the encounter of two growing chains or growing chain and benzoate radical but not by the transfer of chains. It was established that the number of benzoate radicals attaching themselves to the polymer depends upon the conditions of polymerization. An increase in temperature and in concentration of the basic benzoyl peroxide is followed by a reduction in the radical groups in the polymeric molecule and an increase in CO2 in the gaseous phase. Seven references; 3 USSR and 4 USA (1942-1953). Tables; graph; illustration.

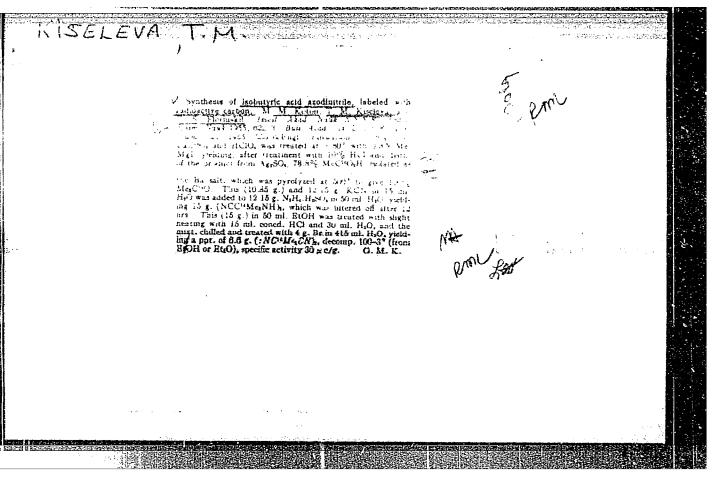
Zhur. fiz. khim. 28/12, 2137-2141, Dec 1954.

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Institution: Academy of Sc. USSR, Institute of High Molecular Compounds,

Leningrad: January 29, 1954.

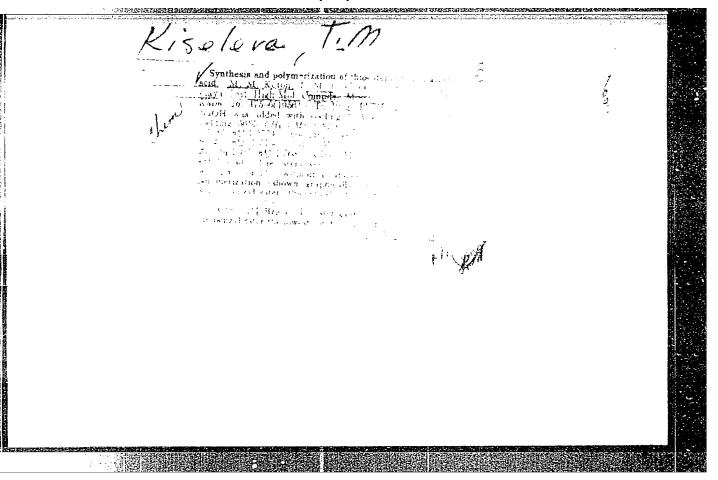


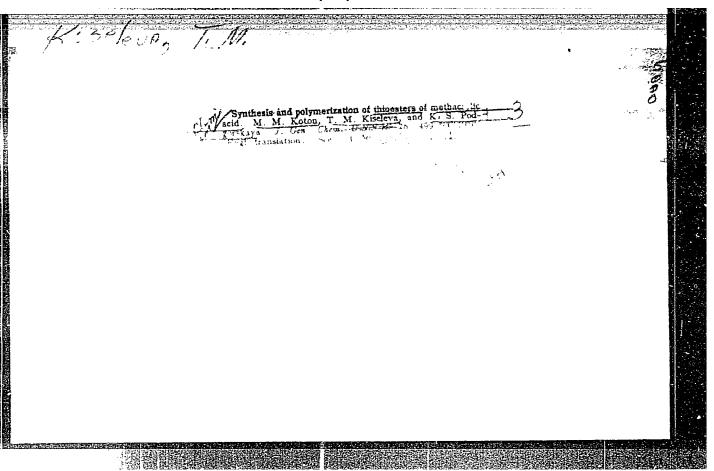


KOTON, M.M.; KISELEVA, T.M.; HESSONOV, M.I.

Study of the radical polymerisation of styrene by means of tracers. Zhur.fis.khim.28 no.12:2137-2141 D 155. (MIRA 8:5)

1. Akademiya nauk SSSR. Institut vysokomolekulyarnykh soyedineniy Leningrad.
(Polymers and polymerisation) (Styrene) (Carbon-Isotopes)





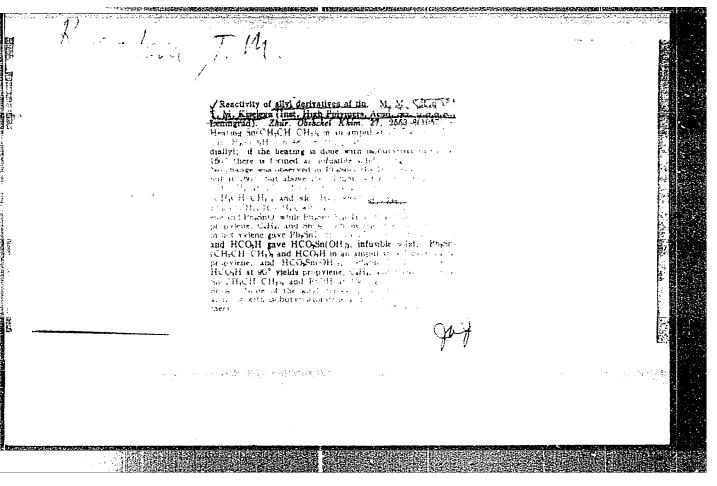
KOTON, M.M.; SOKOLOVA, T.A.; SAVITSKAYA, M.N.; KISELEVA, T.M.

Synthesis of N-substituted methacrylamides. Part 3: N-alkylacryland N-alkylmethacrylamides. Zhur. ob. khim. 27 no.8:2239-2243 Ag

157.

1. Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR.

(Methacrylamide)



#### CIA-RDP86-00513R000722810020-9 "APPROVED FOR RELEASE: 09/17/2001

KISELEVA.

AUTHORS:

79-2-30/64 Koton, E. M., Sokolova, T. A., Savitskaya, M. M., Kiseleva, T. H.

TITLE:

Cases of Polymerization Inhibition of the Lonomers From the Arylmethacrylate Series (Sluchai zatrudnennoy polimerizatsii monomerov ryada arilmetakrilatov).

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 417-421 (USSR).

ABSTRACT:

In the polymerization of arylmethacrylates it was found that the arylmethacrylates, which in the phenyl radical have the substituends in the ortho-position to the acyl radical, polymerize much more slowly than the corresponding paraisomers, independently of the character of the substituends. The polymerization conditions, the obtained results, as well as various methacrylates are shown in the table. The difference in the polymerization velocity between the methacryl ether of thymol and the methacryl ether of menthol is explained by the fact that the carbon atoms of the cyclohexane ring in the menthol ether are not arranged in one plane and thus the whole molecule is not as rigid as that of the thymol ether. In all given cases the polymerization inhibition can be explained by the screening effect of voluminous groups on the double binding. They disturb the access to the double binding of the free radicals of the benzoylperoxide which are volumi=

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Cases of Polymerization Inhibition of the Monomers From the Aryl- 79-2-30/64 methacrylate Series.

nous, too. The experimental conditions as well as the properties of the monomers and polymerization data are given. Special data are given for the methacrylethers of pacresol, guaiacol, pametoxyphenol, o - oxybenzylphenyl, thymol, and menthol which hitherto have not yet been described in technical literature.

There are 1 table, and 2 Slavic references.

ASSOCIATION: Institute for High-molecular Compounds AS USSR (Institut vysokomoleku=lyarnykh soyedineniy Akademii nauk SSSR).

SUBMITTED: January 11, 1957.

AVAILABLE: Library of Congress.

Card 2/2

5(3)

SOV/62-59-5-37/40

AUTHORS:

Koton, M. M., Kiseleva, T. M., Florinskiy, F. S.

TITLE:

Letters to the Editor (Pis'ma redaktoru)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 5, p 948 (USSR)

ABSTRACT:

The authors of this letter inform the editor that for the first time they synthetized several metalliferous styrenes. The synthesis of these metalliferous styrenes was carried out at reaction conditions of Leebrick and Ramsden (Ref 1) under the action of paravinylphenyl magnesium chloride in tetrahydrofuran upon halides of the phenyl derivatives of mercury, lead antimony, bismuth, and phosphorus and upon the alkyl derivatives of tin. For the corresponding reaction equations the following two examples are given:

(I)  $CH_2 = CH - C_1 + C_1 Pb(C_6 H_5)_3 \rightarrow MgCl_3 + CH_2 = CH - C_2 Pb(C_6 H_5)_3$ 

(II)CH<sub>2</sub>=CH-C-MgCl+BrHgC<sub>6</sub>H<sub>5</sub> -> MgClBr+CH<sub>2</sub>=CH-C-HgC<sub>6</sub>H<sub>5</sub>

The monomers obtained are crystalline or liquid substances, they polymerize and copolymerize easily with the vinyl monomers in

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Letters to the Editor

sov/62-59-5-37/40

forming transparent plastic masses. The properties of the monomers as well as of the poly- and copolymeric substances are further investigated by the authors. There is 1 reference.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR

(Institute of High-molecular Compounds of the Academy of

Sciences, USSR)

January 17, 1959 SUBMITTED:

Card 2/2

AUTHORS:

Koton, M. M., Kiseleva, T. M., SOV/20-125-6-24/61

Paribok, V. A.

TITLE:

The Synthesis of the Polymerizing Methacrylates of
Trialkyl-(aryl) Tin (Sintez polimerizuyushchikhsya metakrilatov
trialkil(aril)olova)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1263-1264 (USSR)

ABSTRACT: Data have been lacking on the production of methacrylates of the alkyl- and aryl derivatives of tin (except Ref 1) in most recent time. The authors synthesized for the first time the derivatives mentioned in the title:

1) CH<sub>2</sub> = C(CH<sub>3</sub>)COOSn(CH<sub>3</sub>)<sub>3</sub>; 3) CH<sub>2</sub> = C(CH<sub>3</sub>)COOSn(C<sub>4</sub>H<sub>9</sub>)<sub>3</sub> and

2)  $\text{CH}_2 = \text{C}(\text{CH}_3)\text{COOSn}(\text{C}_2\text{H}_5)_3$ ; 4)  $\text{CH}_2 = \text{C}(\text{CH}_3)\text{COOSn}(\text{C}_6\text{H}_5)_3$ . This synthesis was obtained by the interaction of the corresponding hydroxides of trialkyl-(aryl) tin and of methacrylic acid solved in acetone. The substances produced are white crystalline compounds which are easily soluble in organic solvents. They polymerize readily as solids as well as in the

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The Synthesis of the Polymerizing Methacrylates of Trialkyl-(aryl) Tin

SOV/20-125-6-24/61

solution. Furthermore, a copolymerization with vinyl monomers takes place under the formation of colorless synthetic products. The hitherto solid polymers are transformed into transparent colorless elastic gel (methacrylate of tributyl tin) by prolonging the alkyl radical in tin-containing methacrylates (e.g. during the transition of trimethyl-(ethyl) tin). The usual data are given in an experimental part. Finally, products are discussed which are formed during the interaction between the products mentioned in the title and alcoholic HCl and KOH. The investigation of the properties of the polymers is continued. There are 3 references, 1 of which is Soviet.

ASSOCIATION:

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of Sciences USSR) Politekhnicheskiy institut im. M. I. Kalinina (Polytechnic Institute imeni M. I. Kalinin)

PRESENTED:

February 9, 1959, by A. N. Nesmeyanov, Academician

SUBMITTED:

January 26, 1959

Card 2/2

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Limits and A. C. Limits and T. F. Rotters, D. A. Rochkin, L. Limits and J. V. Berlands (USA).  Organolia Foltwarz  Germ. M. M., T. M. Highera, and F. S. Floringhy (USA). The Effect of Chemical Structure on Cas Polymerisation Activity of the Unsaturated Organosatellia Compounds  Foltwarksin M. Y. (USS). Geoperative Processes in the Folymendensation of Ricolarysers  Card 6/9	LEVA	Nationin. S.C. (ISSN). Cyclic Polymeriation and Copolymeriation of Publish Examples and L. Perallenn. A. V. Topolityry, and B. A. Exmisal' (ISSN). Synthesis of Grystalline Folyminjuranements and B. A. Exmisal' (ISSN). Synthesis of Grystalline Folyminjuranements and Co. N. Bostorskir (ISSN). Polymeriation of Polymerical Compounds  Noticent Compounds  Solimon, O. P., Dimonis, E. Jahrush, and M. Icmania (Emania). Folymerisation of Vinylaurosania in the Freezes of Butyllithium as Illarium Chloride Type Catalysis	boldsneby, M. J. Mesites, A. Stermenhus, and T. Zronar (Czechosloratia). The Structure of Engulared Insaturative Polysters.  21 hyperan. To. M., 15. N. Millora, and M. M. Peplynker (USSR). Seventured of Polysters and finit Gligmeses.  Soldaneoly, M., and A. Stermachus (Czechosloratia). Inalysis of Cross-Linked Polysters.  Manhiott A. M. To. Y. Majinkers, M. C. Kakarraka. T. Soldaners.  Mad O. A. Glidderyiz (USSR). On the Nymbasis and Polyphunylenessityi.  1 has Polymers of the Types of Poly-p-Tylens and Polyphunylenessityi.	COTAGIN: This is Section I of a multivolume work containing actsuiffic papers on macroscientar chemistry in Moncov. The material includes data on the synthesis and properties of polymers, and on the processes of polymerisation, copolymerisation, and polymerchimation. Each text is presented in full or summarised in French, Explish, and Eussian. There are for papers, 28 of which were presented by Seriet, Remains, Bungarian, and Gaschoslovakian scientists. In personalities are sentioned. Beforeces accompany indiriculal articles.  Therefore, 7e. I., 8. A. Dolgolosk, 7. O. Zeneriera, R. K. Kerslevskers, and J. K. Naryleizs (CESS). The Synthesis of Cis- and Trans-Discs Polymers and State Gatalyris and Study of Thair Structure and Properties  Macall T. M., G. T. Morelly, N. M. Pillipowriays.  [N. M.	Neshdumarodny simposium po makromolekuljarmoy khimii SSSR, Moskve, 14-18 fymnym 1960 g.; doklady i ertorefersty. Sektelym. I (International Symposium on Macromolemular Chamistry Reld in Moscow, June 14-18, 1960; Expers and Summarise. Sectium I.) [Noscow, Ind-ro 18 SSSR, 1960] 346 p. 5,500 copies printed.  Sponsoring Agency: The International Union of Pure and Applied Chemistry, Commission on Macromolecular Chamistry Tech. Ed.: T. 7. Folymkova.  FURPOSE: This collection of articles is intended for chemists and researchers interested in macromolecular chemistry.	International symposium on macromolecular chemistry, Yorcov,
rore, and P. F. Bordsenby (USM).  160  reinsely (USM). The Effect  activity of the Unsaturated  167  Processes in the Polymondense- 202  49	(USSN). On the Fre- Reaction of Polyre- 141  2 Tan (USSN). The Greatfet (GH <sub>5</sub> )3 Alvisit, 152  GRitora, (USSN). Germanium- 156	and Gopolymerization of 10)  we and B. A. Ermissel 116  marane 116  Polymerization of Poly- 125  d M. Immata. (Amania).  sense of Butyllithium and 131	dir (Creeboslovakia). 56  La (USSA). Rev 64  Landysis of Cross- 72  1: 7: Tubharysa.  Tyberylanesethyd. 90	nathing scientific papers al includes data on the processes of polymerisation, fmation. Each text is , and bussian. There are manian, Bugarian, and santioned. References sentioned. References sentio	il SSSR, Moskva, 14-18 1. [International Sympos- two 11-18, 1960] Fabra and 1960] 346 p. 5,500 copies and Applied Chemistry, or chemists and researchers	200//982
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\$/190/60/002/011/008/027 B004/B060

11,2219 AUTHORS:

Koton, M. M., Kiseleva, T. M., Florinskiy, F. S.

TITLE:

Synthesis and Polymerization of Unsaturated Metal-containing

Compounds (

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 11, PERIODICAL:

pp. 1639 - 1644

TEXT: The authors report on the synthesis, made for the first time, of polymers of styrene, acrylic and methacrylic acid, containing tin, lead, or mercury. The kinetics of polymerization was studied in a 0.3 molar solution in toluene at 65°, 80°, and 105°C. The metal-containing styrene polymers polymerize at a faster rate than nonsubstituted styrene; triphenyl stannyl styrene triphenyl plumbyl styrene styrene. Activation energy in triphenyl stannyl styrene was (13,4+0.5)kcal/mole, and in triphenyl plumbyl styrene (15.0+0.8)kcal/mole. Disproportionation occurs in the polymerization of p-phenyl mercuryl styrene 7 Diphenyl mercury and bis (p-vinyl phenyl) mercury are formed. The latter polymerizes readily on heating to form three-dimensional polymers which are stable up to Card 1/3

CIA-RDP86-00513R000722810020-9" **APPROVED FOR RELEASE: 09/17/2001** 

85413

Synthesis and Polymerization of Unsaturated S/190/60/002/011/008/027 Metal-containing Compounds S/190/60/002/011/008/027

240 - 250°C. Cross linked polymers are formed on copolymerization with styrene. In metal-containing methacrylates the polymerization rate follows the succession: phenyl mercury methacrylate > triphenyl stannomethacrylate > triphenyl plumbomethacrylate> methyl methacrylate. The ability of these compounds to polymerize is explained by the fact that there is either a benzene ring or the polar carboxyl group between the metal atom and the vinyl group. Tin- and lead compounds, in which there is a direct bond between the metal and the vinyl group, do not polymerize. Methacrylates and acrylates were produced by reaction of equimolecular mixtures of metal aryl hydroxides with the respective acids. Triphenyl plumbomethacrylate was prepared from triphenyl plumbohydroxide by heating with methacrylic acid in ethanol; yield 87.9%. Polymerization at 120°C in the mass. The same for triphenyl plumboacrylate, yield 76.4%. Polymerization in decalin at 180 - 190°C. Metallic lead separates on heating above 250°C. Phenyl mercuromethacrylate, production like the lead compound, 81.8% yield, phenyl mercuroacrylate, yield 90%. Mercury compounds irritate the skin. Triphenyl stannpacrylate (80.5% yield) polymerizes in block at 170°C, the methacryl compound (melting point 85-86°C) polymerizes in block or in solution in the presence of azoisobutyric acid-dinitrile.

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5.3700

77*3*77 SOV/79-30-1-38/78

AUTHORS:

Koton, M. M., Kiseleva, T. M., Zapevalova, N. P.

TITLE:

Reactivity of Unsaturated Compounds of Tin and Lead

PERIODICAL:

Zhurnal obshchey khimii, Vol 30, Nr 1, pp 186-190 (USSR)

ABSTRACT:

The following compounds were synthesized: allyltriphenyllead (by the method of P. Austin /J. Am. Chem. Soc., 53 3514 (1931)/); allyltrimethyltin /Petrov, A. D.,

Mironov, V. F., Dolgiy, I. Ye., Izvest. Akad. nauk SSSR. Otdel. khim. nauk, 1956, 11467; vinyltrimethyltin

/Seyferth, D., J. Am. Chem. Soc., 79, 515, 2133 (1957); J. Org. Chem., 22, 478 (1957)7; vinyltriphenyltin /ibid.7; divinyldiphenyltin /Ibid.7; and tetravinyltin /ibid.7 Experiments with thermal decomposition (which resulted

in formation of akylmetal compound, followed by

precipitation of metal) were performed by heating 1 g of compound in a sealed ampule at 100-3000. It was

found that: (1) vinyl compounds of tin are more stable toward heating than the allyl compounds, which in turn

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Reactivity of Unsaturated Compounds of Tin and Lead

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are more stable than the allyl compounds of lead; and (2) thermal stability decreases with increasing number of vinyl groups in the molecule of organometallic compound. The stability of vinyl derivatives of tin decreases in the order vinyltrimethyltin (stable up to 250°) > vinyltriphenyltin > divinyldiphenyltin > tetravinyltin (which begins to decompose at 170°.) In respect to their reactivity the investigated radicals can be arranged: allyl > phenyl > vinyl. In reactions of allyltriphenyl lead with HCl (performed in an ampule connected to a gas burette the evolved propylene was absorbed in bromine-CCl<sub>14</sub> solution and the resulting solution was titrated with Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>), the allyl radical is eliminated first, forming propylene:

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Reactivity of Unsaturated Compounds of Tin and Lead

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 $(C_3H_5)Pb(C_6H_5)_3 + IICI \longrightarrow C_3H_6 + (C_6H_5)_3PbCl$ 

(it was shown earlier /Seyferth, D., J. Am. Chem. Soc., 79, 515, 2133 (1957); J. Org. Chem., 22, 478 (1957); Rosenberg, S., Gibbons, A., et al., J. Am. Chem. Soc., 79, 2137 (1957)/ that in reactions of vinyl derivatives of tin of the formula R2Sn (CH=CH<sub>2</sub>)<sub>2</sub> with iodine, HCl and HBr, the radicals can be arranged according to the rate of their elimination in the order phenyl > vinyl > methyl > ethyl > propyl > butyl). Vinyl derivatives of tin do not polymerize under conditions of free radical polymerization --heating in presence of peroxides and azo-compounds (allyltriphenyllead decomposes at 120° in the presence of benzoyl-or tertiary-butyl peroxides with formation of free lead). All of the investigated lead and tin compounds inhibit free radical polymerization (at

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Reactivity of Unsaturated Compounds of

Tin and Lead

120° in benzene solution) of styrene and, especially, methyl methacrylate (see Figs. 1 and 2).

Fig. 1. Polymerization of methyl methacrylate at 120° in presence of 5 weight % of unsaturated compounds of tin: (1) tetraallyltin; (2) allyl-trimethyltin; (3) diallyldiphenyltin; (4) allyltriphenyltin; (5) tetravinyltin; (6) vinyltrimethyltin; (7) vinyltriphenyltin; (8) pure methyl methacrylate.

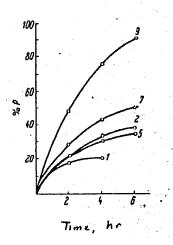
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Reactivity of Unsaturated Compounds of Tin and Lead

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Fig. 2. Polymerization of styrene at 120° in presence of 5% by weight of unsaturated compounds of tin: (1) tetraallyltin; (2) allyltrimethyltin; (5) tetravinyltin; (7) vinyltriphenyltin; (9) pure styrene.



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Reactivity of Unsaturated Compounds of Tin and Lead

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By arranging the compounds shown in Figs. 1 and 2 in order of decreasing inhibiting action: tetraallyltin >> tetravinyltin >> allyltrimethyltin >> diallyldiphenyltin >> allytriphenyltin >> vinyltriphenyltin >> vinyltriphenyltin >> vinyltriphenyltin, it can be seen that the least stable compounds are the most active inhibitors. There are 2 figures; 2 tables; and 9 references, 2 Soviet, 1 German, 1 U.K., 5 U.S. The 5 most recent U.K. and U.S. references are: J. Brydson, Plastics, 1957, 384; H. Gilman, J. Eisch, J. Org. Ch., 20, 763 (1955), J. Am. Chem. Soc., 55, 4689 (1933); D. Seyferth, J. Am. Chem. Soc., 79, 515, 2133 (1957), J. Org. Ch., 22, 478 (1957); S. Rosenberg, A. Gibbons, H. Ramsder, J. Am. Chem. Soc., 79, 2137 (1957); G. Gilman, J. Am. Chem. Soc., 61, 735 (1939).

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#### CIA-RDP86-00513R000722810020-9 "APPROVED FOR RELEASE: 09/17/2001

Reactivity of Unsaturated Compounds of Tin and Lead

77377 SOV/79-30-1-38/78

ASSOCIATION:

Institute of High-Molecular-Weight Compounds of the Academy of Sciences, USSR (Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR)

SUBMITTED:

January 14, 1959

Card 7/7

5(3) 5.3700 (c) AUTHORS: Koton. M. 1

Koton, M. M., Kiseleva, T. M.

67950 80**V**/20**-130-1-23/6**9

TITLE:

Synthesis of Polyorganostannoxanes

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 1, pp 86-87 (USSR)

ABSTRACT:

As besides patents there were no publication data to be found on polyorganostannoxanes with a group = Sn-0- Sn in the principal chain, the authors tried to synthesize these compounds. For this purpose they used the reaction of polycondensation (K. A. Andrianov, Ref 3; Ref 4). The authors investigated the reaction of the diacetates of n- and i-butyl-tin with tetraethoxy-tin. The bond - Sn-0- Sn was formed by the interaction of the acetate- with the ethoxyl group (see Scheme). The polymer (I) was isolated as a bright-yellow powder with a softening temperature of 70-75° for (i-C<sub>4</sub>H<sub>9</sub>)<sub>2</sub>Sn(OAc)<sub>2</sub>), or 60-70° for (n-C<sub>4</sub>H<sub>9</sub>)<sub>2</sub>Sn(OAc)<sub>2</sub>). The molecular weight of the polymer (I) was 1890-1990 (that of the tetramer was 1936). Thus, a linear, low-molecular (n = 4) polyorganostannoxane develops

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67950

Synthesis of Polyorganostannoxanes

SOV/20-130-1-23/69

under the conditions of the experiment. The polymer can be hydrolyzed by heating with water. The ethoxyl- and acetate groups are separated, and an insoluble and nonfusible compound (II) is formed (see Scheme). There are 5 references, 1 of which is Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of Sciences, USSR)

PRESENTED: June 20, 1959, by A. N. Nesmeyanov, Academician

SUBMITTED: June 14, 1959

Card 2/2

5.3700(c)
AUTHORS: Koton, M. M., Kiseleva, T. M.

6999**5** s/020/60/131/05/024/069 B011/B117

TITLE:

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The Synthesis of Polymerizable Unsaturated Organomercury Compounds

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 5, pp 1072-1073 (USSR)

TEXT: No data on the polymerizability of the compounds mentioned in the title have been hitherto published. A vinyl derivative of mercury diphenyl which could be both polymerized and copolymerized was synthetized by the authors (Ref 10) for the first time. Thus, if para-vinyl phenyl magnesium bromide is reacted with phenyl mercury bromide in hydrofuran solution, crystalline phenyl-pvinyl phenyl mercury (I) (see equation) is obtained. (I) is easily polymerized or copolymerized without initiators or in the presence of isobutyro-azodinitrile. Benzoyl peroxide, catalysts of cationic polymerization, and complex catalysts cannot be used, since all of these enter into chemical reactions with the monomer (I). (I) is disproportionated during polymerization with the formation of diphenyl mercury and of a new unsaturated compound, i.e. bis-para-vinyl phenyl mercury (II) (see equation). (II) can very easily be polymerized. Thereby, an insoluble and infusible cross-linked polymer (III) is formed. (III) is decomposed above 2500 with the separation of metallic mercury. In order to prove the correctness of their assumptions, the authors synthetized bis-p-vinyl phenyl mercury by reaction of p-vinyl phenyl magnesium chloride in tetrahydrofuran with mercury

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The Synthesis of Polymerizable Unsaturated Organomercury Compounds

6999**5** 8/020/60/131/05/024/069 B011/B117

bromide in form of a crystalline substance (see scheme). The monomer (II) can be easily polymerized to give a polymer having the same structure as (III) such as the product of disproportionation of phenyl-p-vinyl phenyl mercury. (I) and (II) give copolymers with styrene. These copolymers are transparent, colorless, and insoluble substances. There are 10 references, 4 of which are Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR

(Institute of High-molecular Compounds of the Academy of Sciences

USSR)

PRESENTED: January 20, 1960, by A. N. Nesmeyanov, Academician

SUBMITTED: December 14, 1959

Card 2/2

28270

15.8150

8/062/61/000/010/005/018 B117/B101

AUTHORS:

Koton, M. M., and Kiseleva, T. M.

TITLE:

Synthesis and investigation of the reactivity of polymerizing organometallic derivatives of p-vinylbenzoic acid

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 10, 1961, 1783 - 1788

TEXT: A number of organometallic derivatives of p-vinylbenzoic acid and benzoic acid were synthesized, and their reactivity studied under comparable conditions. For this purpose, the following organometallic compounds were synthesized for the first time: 1) triphenyl-stannyl-p-vinylbenzoate, (C6H5)3Sn0COC6H4CH=CH2, melting point 81 - 83°C; 2) triphenylstannyl benzoate, (C6H5)3SnOCOC6H5, melting point 70 - 72°C; 3) triphenylplumbyl-p-vinylbenzoate,  $(C_6H_5)_3$ Pb0C0C6H4CH=CH2, melting point 136 -138°C;

4) triphenyl-plumbyl benzoate, (C6H5)3Pb0COC6H5, melting point 117 - 120°C;

5) diphenyl stibine-p-vinylbenzoate, (C6H5)2SbOCOC6H4CH=CH2, melting

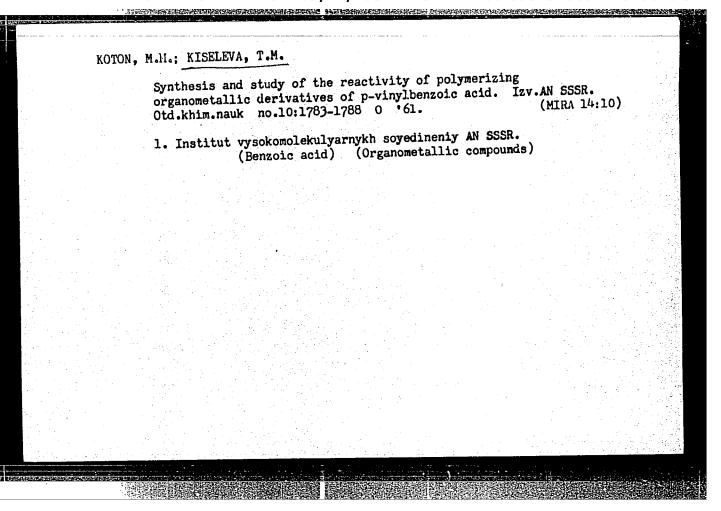
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28270 s/062/61/000/010/005/018 B117/B101

Synthesis and investigation ...

point 78 - 80°C; 6) diphenyl-stibine benzoate, (C6H5)2Sb0COC6H5, melting point 121 - 122°C; 7) phenylmercury-p-vinylbenzoate, (C6H5)HgOCOC6H4CH=CH2, melting point 117 - 118°C; 8) phenylmercury benzoate, C6H5HgOCOC6H5, melting point 97 - 98°C. In reactions of mercury and lead compounds with alcoholic HCl solution the C6H5COO radical was found to be more reactive than  $\text{CH}_2 = \text{CH}_6 \text{H}_4 \text{COO}$  under comparable conditions (-5 - -10°C). When phenyl groups accumulate in the molecule of the organometallic compound, the difference in the reactivities of these radicals becomes insignificant. The reactivity of organometallic derivatives of p-vinylbenzoic acid was studied by a dilatometric investigation of the kinetics of radical polymerization in toluene in the presence of 0.25% by weight of azoisobutyrodinitrile at 80, 90, and 100°C. The polymerization rate can be increased by introducing organometallic substituents into the molecule of p-vinylbenzoic acid, according to the nature of the metal: Hg>Sn>Pb>Sb. The thermal stability of polymers of organometallic derivatives of p-vinylbenzoic acid was studied on the basis of their destruction at 150, 200,

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KISELEVA, T.M.; KOTON, M.M.; CHETYRKINA, G.M.

Synthesis of polymerizing organometallic compounds of pathalic acid N-vinyl amide and N-(o,p-carboxyphenyl)acryl (methacryl)amides. Isv. AN SSSR.0td.khim.nauk no.10:1798-1804 0 \*62. (MIRA 15:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Organometallic compounds) (Phthalamide) (Acrylamide)

ACCESSION NR: S/0190/64/006/008/1496/1497 AP4043789 AUTHOR: Koton, M. M.; Kiseleva, T. M.; Arkhipova, I. L. TITLE: Synthesis of metal-containing polymers by reaction in a poly(methacrylic acid) chain SOURCE: Vy\*sokomolekulyarny\*ye soyedineniya, v. 6, no. 8, 1964, 1496 1497 TOPIC TAGS: metal containing polymer, metal containing polymer synthesis, poly(tri-n-butyltin methacrylate), poly(triphenyltin methacrylate), poly(diphenylantimony methacrylate), poly(triphenyllead methacrylate), poly(phenylmercury methacrylate), thermostable polymer ABSTRACT: Thermally stable organometallic copolymers which are soluble in organic solvents were synthesized by reacting poly(methacrylic acid) with alkyl- or aryl-metal hydroxides. The copolymers were synthesized in alcohol solution at 700 as follows: COOH 1/3

#### ACCESSION NR: AP4043789

where M is Sn, Pb, Hg, or Sb, and R is C6H5 or C4H9. The synthesized copolymers were poly(tri-n-butyltin methacrylate), which is soluble in benzene, toluene, dimethylformamide; poly(triphenyltin methacrylate), which is insoluble in organic solvents; poly(diphenyl-methacrylate), which is insoluble in organic solvents; poly(diphenyl-methacrylate), which is soluble in dimethylformamide; and antimony methacrylate), which is soluble in dimethylformapoly(phenylmercury methacrylate), which is soluble in dimethylformapoly(phenylmercury methacrylate), which is soluble in dimethylformapoly(phenylmercury methacrylate), which is soluble in dimethylformapolymers of tri-n-butyltin methacrylate, ranging from rubber-like copolymers of tri-n-butyltin methacrylate, ranging from rubber-like to solid-type, were obtained. The structure of the synthesized copolymers was proven by the hydrolysis of poly(triphenyltin methacrylate), which yielded pure triphenyltin hydroxide. It is noted acrylate), which yielded pure triphenyltin hydroxide. It is noted that the thermal stability of the copolymers is not lower than that of homopolymers of the respective organometallic monomers. Orig. art. has: 1 formula.

ASSOCIATION: Institut vy\*sokomolekulyarny\*kh soyedineniy AN SSSR (Institute of Hacromolecular Compounds, AN SSSR)

Card 2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722810020-9"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722810020-9

ACCESSION	NR: AP4043789			
SUBMITTED	: 040ct63	ATD PRESS: 3092	ENCL:	00
SUB CODE:	GC	NO REF SOV: 002	OTHER	001
41				
Cord 3/3				

EWT(m)/EWP(j)/T WW/JWD/RM L 34104-66 ACC NR: AP6008713 SOURCE CODE: UR/0079/65/035/011/2036/2037 AUTHOR: Koton, M. M.; Kiseleva, T. M. ORG: Institute of High Molecular Compounds, Academy of Sciences SSSR (Institut tysokomolekulyarnykh soyedineniy Akademii nauk SSSR) TITLE: Reactions of dimagnesium organic compounds with metal halides and organometallic compounds SOURCE: Znurnal obshchey khimii, v. 35, no. 11, 1965, 2036-2037 TOPIC TAGS: organosilicon compound, organotin compound, organolead compound, organomagnesium compound ABSTRACT: Reactions of BrMgCH, MgBr (I) with stannic chloride (II), diphenyltin dichloride (III), diphenyllead diacetate (IV), and dimethylsilicon dichloride (V) in ether and tetrahydrofuran were studied. Most attention was devoted to the reaction of (I) with (II), which is represented as BrMgCllaMgBr + SnCl4 -> ClaSn(-CH2SnCl2),-CH2SnCl3 Treatment of compound (VI) with alkali produced the organotin compound (VII): Card 1/3 UDC: 547.419.6: 547.559

L 34104-66

ACC NR: AP6008713

Reaction of (I) with (III), (IV), and (V) are similar; with (III), the dichloride  $ClSn(C_0lI_5)_2[ClI_2Sn(C_0lI_5)_2]_2Cl,$ 

is formed, which under the influence of alkali converts into the corresponding oxide

$$\begin{array}{c|c} C_0 II_5 & C_0 II_5 \\ IIO - Su & CII_2 - Su \\ C_0 II_5 & C_0 II_5 \\ \end{array} \quad \begin{array}{c|c} C_0 II_5 \\ C_0 II_5 \\ \end{array}$$

In tetrahydrofuran, (I) and (V) produced

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ACC NR: AP6008713

(I) and (IV) produced

Orig. art. has: 1 table.

SUB CODE: 07 / SUBM DATE: 14Jul64 / ORIG REF: 002 / OTH REF: 003

Card 3/3 MT

L 34131-66 EWT(m)/EWF(j) UR/0079/66/036/001/0087/0089 ACC NR: AP6025535 SOURCE CODE: Koton, M. H.; Kiseleva, T. M. ORG: none TITIE: Synthesis of spirocyclic compounds containing titanium and silicon SOURCE: Zhurnal obshchey khimii. v. 36, no. 1, 1966, 87-89 TOPIC TAGS: chemical synthesis, titanium compound, silicon compound, polycondensation, pentaerythritol, molecular structure, isomor ABSTRACT: In the polycondensation of pentaerythritol tetraacetated and pentaerythritol dichlorohydrin with tetra-n-butoxytitanium and tetra-nand tetra-isobutoxysilane () spirocyclic compounds are formed, containing one to four titanium atoms and one to three silicon atoms in the molecule, depending upon the reaction conditions. In the case of normal and isotetrabutoxysilane, the normal isomer was found to be more reactive. In all cases pentaerythritol tetraacetate was more reactive than pentaerythritol dichlorohydrin. Tetrabutoxytitanium was more active in the reaction with pentaerythritol tetraacetate than either isomer of tetrabutoxysilane. JPRS: 35.998/ 07 / SUEM DATE: 220ct64 ORIG REF: SUB CODE: 003 / OTH REF: 001 547.348+541.64

27900 S/078/61/006/010/008/010 B107/B101

K

15.2230

AUTHORS: Toropov, N. A., Kiseleva, T. P.

TITLE: The binary system neodymium oxide - alumina, and some data

on the system neodymium oxide - alumina - silica

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 10, 1961,

2353 - 2358

TEXT: The authors studied the system  $\operatorname{Nd}_2O_3$  -  $\operatorname{Al}_2O_3$ , using an electric microfurnace with tungsten heater designed by F. Ya. Galakhov, with which temperatures of up to 2200°C could be attained. The experiments were carried out in an argon atmosphere. The samples were studied microscopically using a MMM-7 (MIM-7) metallographic microscope, roentgenographically, and by infrared spectroscopy using a WKC-12 (IKS-12) spectroscope. The system  $\operatorname{Al}_2O_3$  -  $\operatorname{Nd}_2O_3$  has only one compound with a molar ratio of 1:1, and two eutectics: the first at 75 mole% of  $\operatorname{Nd}_2O_3$  and 25 mole% of  $\operatorname{Al}_2O_3$  and 1800°C, the second at 20 mole% of  $\operatorname{Nd}_2O_3$  and 80

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The binary system...

mole% of Al203 and 1750°C (Fig. 1). The compound Nd203. Al203 melts congruently at 2070°C. The specific gravity is 7.031 g/cm3, and the refractive index is 2.025 and 2.015. The infrared spectrum shows two bands: at  $800 - 850 \text{ cm}^{-1}$ , and at  $1000 - 1100 \text{ cm}^{-1}$ . The X-ray spacings are given in a table. The authors further examined the question whether an addition of Al203 eliminates the miscibility gap in the system Nd203 - SiO2. This application of Al203 as a homogenizing agent has been recommended by Levin and Block (Ref. 3, see below). On the basis of theoretical considerations on the tetrahedral or octahedral coordination of aluminum in the melt, the following points of the ternary system were studied: 3.7 mole% of Al<sub>2</sub>0<sub>3</sub>, 14.3 mole% of Nd<sub>2</sub>0<sub>3</sub>, 82 mole% of SiO<sub>2</sub>; 2.4 mole% of Al203, 14.6 mole% of Nd203, 83 mole% of SiO2; 7.4 mole% of Al203, 13.7 mole% of Nd203, 78.8 mole% of SiO2. Examination of quenched specimens disclosed that separation into layers had not ceased, but the size of the droplets of the separated phases had been reduced considerably. Aluminum seems to have octahedral coordination in this and in similar systems so Card 2/4

27900 ... S/078/61/006/010/008/010
The binary system... B107/B101

that it cannot be used as a homogenizing agent. A. M. Kuchumova participated in the experiments. There are 6 figures, 1 table, and 3 non-Soviet references. The three references to English-language publications read as follows: Ref. 1: J. Warshaw, R. Roy. J. Amer. Ceram. Soc., 42, No. 9 (1959); Ref. 2: F. H. Aldred, A. E. White. Transaction of the British Ceramic Society, 58, No. 4, 200 (1960); Ref. 3: E. Levin, S. Block. J. Amer. Ceram. Soc., 41, No. 2 (1958).

Table	X-ray data for Nd <sub>2</sub> 0 <sub>3</sub> ·Al <sub>2</sub> 0 <sub>3</sub>
d I	d I
3.74 40 2.64 100 2.15 43 1.857 55 1.665 33	1.527 61 1.082 8 1.325 23 1.045 9 1.321 25 1.006 23 1.250 18 1.001 17 1.090 5

27062 \$/080/61/034/003/002/017 A057/A129

15.2330 -

AUTHORS:

Toropov, N. A., Kiseleva, T. P.

TITLE:

Synthesis and investigation of neodymium monoaluminate and neodymium

silicates

PERIODICAL: Zhurnal prikladnov khimii, v. 34, no. 3, 1961, 498-501

TEXT: Ceramic properties of necdymium mondaluminate (Nd<sub>2</sub>O<sub>3</sub> · Al<sub>2</sub>O<sub>3</sub>), oxyorthosilicate Nd<sub>2</sub>O<sub>3</sub> · SiO<sub>2</sub>, orthosilicate 2Nd<sub>2</sub>O<sub>3</sub> · 3SiO<sub>2</sub>, and pyrosilicate Nd<sub>2</sub>O<sub>3</sub> · 2SiO<sub>2</sub> which compounds were observed in the systems Nd<sub>2</sub>O<sub>3</sub> - Al<sub>2</sub>O<sub>3</sub> and Nd<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub>, have been investigated in the present work. This research program on a promising new ceramic was started in connection with the development of new branches in science and industry, resulting in the need of new construction materials corresponding to modern requirements. In the literature there are several publications related to escamic properties of pure rare earth oxides, especially with greater radii of electron capture required in nuclear techniques. Among these are investigations of C. E. Curtis and J. R. Johnson [Ref. 1: J. Am. Cer. Soc., 40, 1, 15-19 (1957)], C. L. Ploetz et al, [Ref. 2: J. Am. Cer. Soc., 41, 12, 551-554 (1958)], and C. E. Curtis and A. G. Tharp [Ref. 3: J.Am. Cer.

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27062 s/080/61/034/003/002/017 A057/A129

Synthesis and investigation of neodymium ...

Soc., 3, 151-156 (1959)]. In the present experiments (carried out under assistance of A. M. Kuchumova) cylindrical test samples (diameter 15 mm, height 5-10 mm) were made by pressing (2,500 atm) the powdered ground mixtures of oxides after calcination at 800 - 900°C. The samples were fired in different types of ovens (silite, kryptol etc.) and it was observed that magnesite rests must be used for the samples to avoid interaction between the sample and the rest. A special preparation technique of mixtures was also developed in order to effect sintering of the samples. The initial silicate mixtures were obtained by co-preci pitation from solutions, and thus fine disperse powders were prepared lowering herewith the sintering temperature for 200 - 250°C. Nd203 was dissolved in diluted HNO3 and mixed with ethylsiliconester. After reaction the obtained precipitate was dried, calcinated (to remove nitrogen oxides), ground and test samples were prepared by pressing. No satisfactory sintering could be effected by firing the test samples in a silite oven at 1,500°C for several hours. Thus 1-2% admixtures of CaF2, Na2SiF6, MgO, and also B2O3 (for aluminate samples only) were tested as mineralizers, i.e., fluxes. Elasticity of the obtained samples was determined by the ultrasonic wave method on a Y3NC-6 (UZIS-6) assembly, and microhardness on a NMT-3 (PMT-3) apparatus with diamond cone. The polished samples were also investigated on a MMM-7 (MIM-7) metallographic microscope,

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Synthesis and investigation of neodymium ...

and a homogeneous structure was observed, except for the orthosilicate samples. It is shown in tables that the best results with respect to properties of the obtained ceramics were obtained with 1-2% CaF, admixtures. The least effective flux was Na<sub>2</sub>SiF<sub>6</sub>. It can be seen from the tabulated data that ceramic properties of neodymium monoaluminate exceed those of the silicates. Thus the modulus of elasticity is twice as high as that of porcelain, glass, magnesite refractories or chamotte. The speed of propagation of elastic deformation (5,964 m/sec) exceeds that in iron, steel, granite, glass and porcelain. The monoaluminate has a high thermal resistance (fusing point 2,070 C) and high microhardness (1,440 kg/mm<sup>2</sup>). There is 1 table and 3 non-Soviet-bloc references.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

SUBMITTED: September 23, 1960

Table: Properties of neodymium silicates and monoaluminate

Legend: (1) material, (2) bulk density (g/cm³), (3) rate of wave propagation (m/
sec), (4) transversal waves, (5) longitudinal waves, (6) coefficient, (7) of sound
refraction, (8) Poisson's, (9) modulus (kg/m²·10-5), (10) of shear, (11) of elasticity, (12) microhardness (kg/mm²), (13) water absorption (%), (14) apparent
porosity, (15) (1,750°C, 40°h) without mineralizer, (16) all (1,800°C for 1h, and
1,600°C for 8 h), (17) (1,500°, 10°h), (18)(1,500°C, 20°h), (19)(1,600°C, 20°h),
(20)(1,600°C, 40°h) without mineralizer
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	s/081/62/000/004/046/087 B156/B138	
AUTHORS:	Toropov, N. A., Kiseleva, T. P.	10
TITLE:	Neodymium silicates	
PERIODICAL:	Referativnyy zhurnal. Khimiya, no. 4, 1962, 377, abstract 4K192 (Tr. Leningr. tekhnol. in-ta im. Lensoveta', no. 52, 1961, 76 - 88)	16
TEXT: An S	io <sub>2</sub> - Nd <sub>2</sub> o <sub>3</sub> equilibrium diagram has been investigated and	
plotted, ar	d three neodymium silicates synthesized: Nd <sub>2</sub> O <sub>3</sub> · SiO <sub>2</sub> , 2Nd <sub>2</sub> O <sub>3</sub>	6
3SiO, and N	d <sub>2</sub> 0 <sub>3</sub> .2Si0 <sub>2</sub> . The first two silicates melt congruently at 1980	1
and 1960°C	respectively, the third silicate melting incongruently at 1750 es of these silicates, found by pycnometer, are 4.476, 4.424 cm3 respectively. [Abstracter's note: Complete translation.]	
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Card 1/1		

KISELEVA, T.P.; FEDCHUN, M.S.; LATYPOV, A.A.; BABADZHANOV, P.B.; RUSSO, Yu.D.; CHUPRINA, R.I., nauchnyy sotrudnik

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.9:16-24
159. (MIRA 13:3)

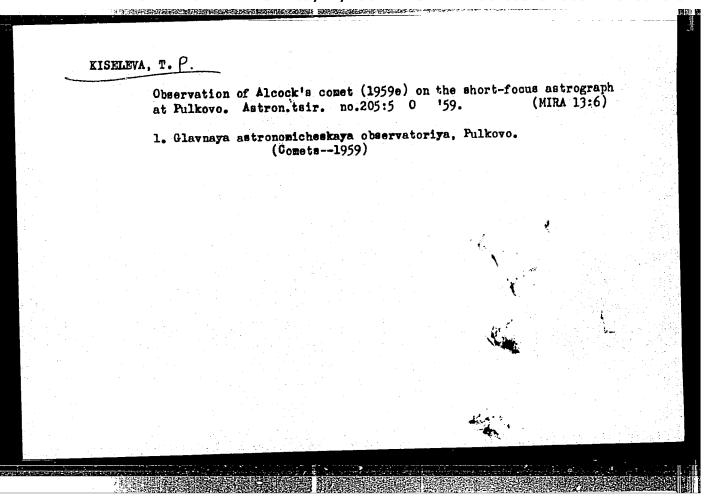
1. Glavnaya (Pulkovskaya ) Astronomicheskaya observatoriya AN (SSSR (for Kiseleva). 2. Glavnaya Astronomicheskaya observatoriya AN USSR, Kiyev. nachal'nik stantsii nablyudeniy (for Fedchun).

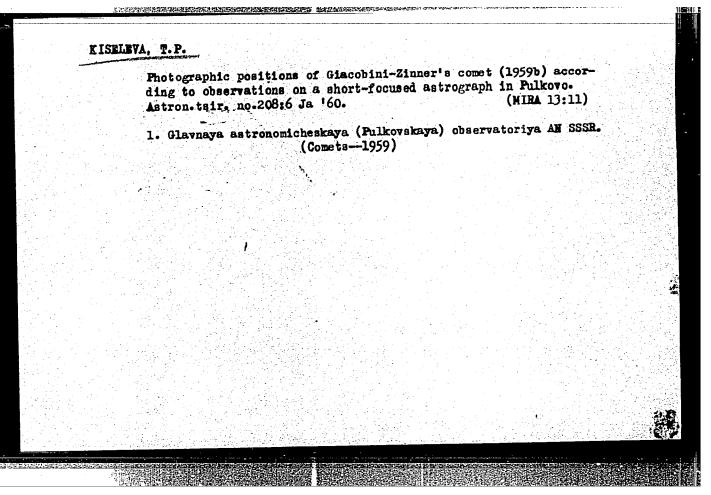
3. Tashkentskaya astronomicheskaya observatoriya AN USSR, nachal'nik fotograficheskoy stantsii (for Latypov). 4. Institut astrofisiki AN Tadshikskoy SSR, Stalinabad, nachal'nik stantsii fotonablyudeniy iskusstvennogo sputnika Zemli (for Babadshanov).

5. Odesskaya astronomicheskaya observatoriya, nachal'nik stantsii nablyudeniy iskusstvennogo sputnika Zemli (for Russo).

6. Astrosovet AN SSSR (for Chuprina).

(Artificial satellites—Tracking)





S/035/62/000/002/004/052 A001/A101

AUTHORS:

Bronnikova, N. M., Kiseleva, T. P., Koroleva, L. S., Chudovicheva,

O. N.

TITLE:

Precise positions of asteroids according to Pulkovo photographic

observations

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 2, 1962, 18,

abstract 2A172 ("Tr. Gl. astron. observ. v Pulkove", 1961, v. 73,

133-146, English summary)

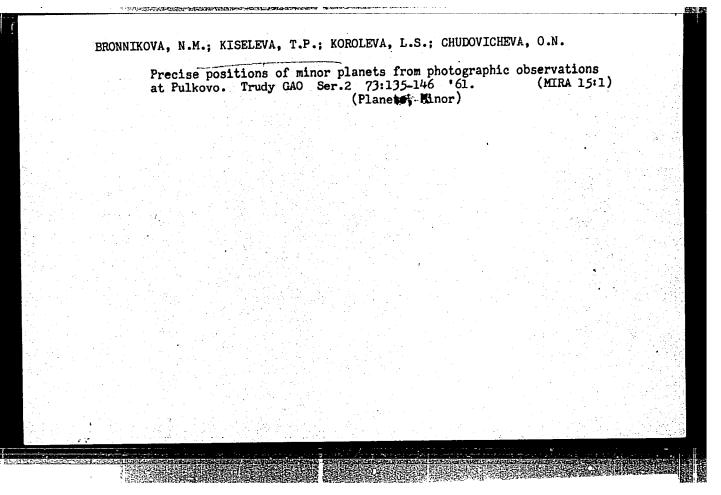
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TEXT: The authors give 223 positions [ $\alpha$ ,  $\delta$  (1950.0), 0-C] of 8 selected asteroids: Ceres-1, Pallas-2, Juno-3, Vesta-4, Heoe-6, Iris-7, Melpomene-18, Harmonia-40. Observations were carried out during 1957 - 1959 by means of a normal astrograph; plates were measured on devices of Repsold and KWM-3 (KIM-3) The authors present the list of fundamental stars and "relationships".

L. N.

[Abstracter's note: Complete translation]

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ACCESSION NR: AR4008350

s/0269/63/000/012/0016/0016

SOURCE: RZh. Astronomiya, Abs. 12.51.146

AUTHOR: · Kiseleva, T. P.

TITLE: Preliminary results obtained in the application of a short-focal astrograph to the astrometric observations of Mars

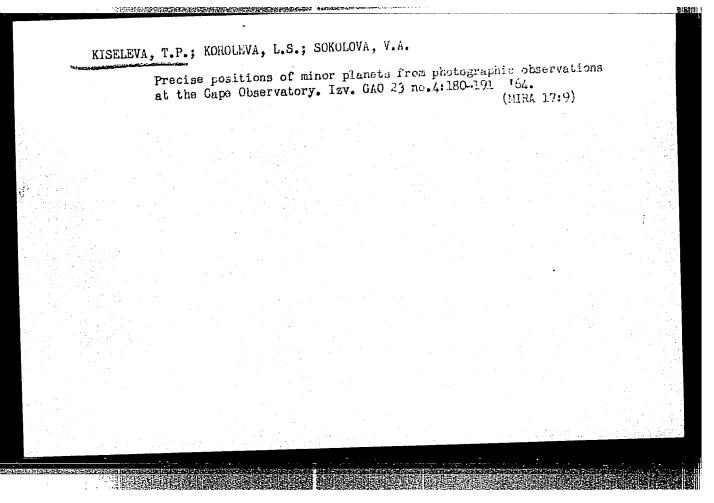
CITED SOURCE: Tr. 15-y Astrometr. konferentsii SSSR, 1960. M.-L., AN SSSR, 1963, 125-127.

TOPIC TAGS: Mars, Mers astrometry, double astrograph, short focal astrograph, Mars brightness, astrometric observation, celestial body motion, celestial body position, phase effect method

TRANSLATION: A description is given of a technique used in observations of Mars by means of an AKD double astrograph (D = 100 mm, F = 700 mm). The planet's brightness was attenuated with a neutral gelatin filter placed in front of the emulsion of the photographic plate and at the center. Because of the smallness of the scale, the proper motion of Mars does not stretch its image at exposures

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of 20 to 6	NR: AR4008350  So sec. An analy for taking the portion of plates showed	phase effect into	eccount is	observations	Processing or	
to both co	pordinates was of	the order of SUB CODE:	– 0.3". KI	1. P.	ENCL: 00	



<u>L 40817-65</u> EWT(1)/EWG(v)/EEC(t) Po-4/Pe-5/Pq-4/Pac-4/Pae-2 GS/GM ACCESSION NR: AT5009181 UR/0000/83/000/000/0125/0127

AUTHOR: Kiseleva, T.P.

TITLE: Preliminary results of the use of a short-focus astrograph for astrometric observations of Mars

SOURCE: Astrometricheskaya konferentsiya SSR. 15th, Pulkovo, 1960. Trudy. Moscow, Izd-vo AN SSR, 1963, 125-127

TOPIC TAGS: astronomical instrument, astrometry, shortfocus astrograph, double astrograph, Mars

ABSTRACT: Determinations of the precise position of Mars by photographic methods, using a double short-focus astrograph, were begun in Pulkovo in 1960. The objective diameter was 100 mm and focal length was 700 mm. The brightness of Mars was attenuated by use of a gelatin filter colored by a nonscattering neutral aniline dye. The filter is a film, 10 mm square, glued at the center of a transparent glass plate. The transparent plate and filter were placed in a holder in front of a photographic plate. A set of filters of different density was used; these attenuated the brightness of Mars by 5-7 stellar magnitudes. Photographs were taken simultaneously by two cameras. Ten images of

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L 40817-65 ACCESSION NR: AT5009181

Mars and stars were obtained on a photographic plate; exposures were 20 to 60 seconds, depending on the brightness of Mars. A total of 68 pairs of plates with Mars were obtained in the winter of 1960-1961; only 6 pairs have been processed at this time. Since a number of different systematic errors can arise in the reduction process photographs were taken of control stars (\$\beta\$ Gemini and \$\perp \text{ Aurigae}\$) situated approximately at the same declination with Mars and close to it in brightness; 12 pairs of control stars were obtained. Computations were made on a "Ural" electronic computer. The phase effect must be taken into account when determining the final coordinates of Mars. The formula for taking the phase effect into account has the form:

$$\xi = \frac{g_0}{3\pi} (t - K). \tag{1}$$

where  $\rho$  is the apparent radius of Mars;  $K = \cos^2 \frac{\mathbf{0}}{2}$ , and  $\mathbf{0}$  is the phase angle. In projection on the axes of equatorial coordinates

(2)

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## L 40817-65 ACCESSION NR: AT5009181

Q is the position angle of minimum illumination, read counterclockwise from the north. The results of analysis of six pairs of plates are given in a table. Spherical coordinates were computed by the A. A. Kiselev method, programmed for a "Ural" computer. Coordinates were computed using two triangles of reference stars. Comparison of the results from the two triangles made it possible to determine the mean error of the position of Mars from two plates dependent on the reference stars.

$$\epsilon_{\bullet}^{\bullet}\cos\delta = \pm 0.3,$$

$$\epsilon_{\bullet}^{\bullet} = \pm 0.2.$$
(3)

Analysis of the convergence of positions, determined from two simultaneous plates, gives the value of the mean error of a position of Mars, dependent for the most part on measurements of Mars itself and to a lesser degree on the measurements of the reference stars (the measurement errors in this case include possible displacements of the emulsion layer).

$$c_c^{\text{cos}} \delta = \pm 0.3$$
,  $c_c^{\text{cos}} = \pm 0.2$ . (4)

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ACCESSION NR: AT5009181

The table in the text gives the differences determined as a result of comparison of the observations with the ephemeris. The systematic part of the difference "observation minus ephemeris" for the period 1-13 November 1960 was: for  $\checkmark$  +0".6, and for  $\checkmark$  +0".2. The mean error of one position of Mars, cited in the table and computed from inner convergence, was:

 $\epsilon_c^c \cos \delta = \pm 0.3$ , (5)

Due to the limited data used the results can only be considered preliminary. Orig. art. has: 5 formulas and 1 table.

ASSOCIATION: None

SUBMITTED: 6Apr63 ENCL: 00 SUB CODE: AA

NO REF SOV: 000 OTHER: 000

Cord 4/4

KISELEVA, T.P.; KOROLEVA, L.S.; SOKOLOVA, V.A.

Exact positions of minor planets computed from photographic observations at Cape Observatory. Biul. Inst. teor. astron. 10 no.1:76-80 165. (MIRA 18:12)

1. Submitted May 9, 1964.

BRONNIKOVA, N.M.; KISELEVA, T.P.; STRUGATSKAYA, A.A.; CHUDOVICHEVA, O.N.

Exact positions of minor planets computed from photographic observations at Pulkovo. Biul. Inst. teor. astron. 10 no.1: 81-87 '65. (MIRA 18:12)

1. Submitted May 9, 1964.

L 00735-67 EWT(1) ACC NR: AT6015884 SOURCE CODE: AUTHOR: Kiseleva, T. P. ORG: none TITLE: Photographic positions of Mars obtained on the short-focus astrograph of SOURCE: Pulkovo, Astronomicheskaya observatoriya. Izvestiya, v. 22, No. 6(176), TOPIC TAGS: observatory, Mars, astronomy, astrograph, photography, orbit, planet ABSTRACT: Photographic observations of Mars were conducted at the Pulkovo Observatory beginning in November of 1960 and lasting until April of 1961. The observations were performed with the use of a short-focus (d = 100 mm, f - 710 mm) astrograph for the purpose of determining exact positions. The problem of these observations was one of testing the method of simultaneous photographing of the bright planet and weak satellites with the use of a gelatin filter. It was also desired to develop a methodology for processing the photographs obtained, so that both random and systematic relationships of a series of positions would prove informative in adding to existing theories on the motions of Mars. A total of 47 positions of the planet were plotted (see Fig. 1) for the test period. On the photographs Mars appears as a star of the 6th to 7th stellar magnitude. The effect of the phase of Card 1/2

ACC NR. AR6019470 SOURCE COLE: UR/0269/66/0C0/002/0017/0017

AUTHOR: Kiseleva, T. P.

TITLE: Photographic observations of Mars carried out at Pulkovo Observatory using a short focal-length astrograph

SOURCE: Ref. zh. Astronomiya, Abs. 2.51.141

REF SOURCE: Izv. Gl. astron. observ. v Pulkove, v. 22, no. 6, 1965, 247-255

TOPIC TAGS: Wars planet, astrograph, planetary photography

ABSTRACT: Photographic observations of Mars were carried out from November 1960 to April 1961 with the aid of a short focal-length astrograph (D = 100 mm, F = 710 mm). The brightness of Mars was reduced by thin gelatine filters placed in plate holders in front of the plates. In the photographs taken Mars appeared as a 6-7m star. The effect of the phase of Mars was taken into account. It was investigated by taking photographs of an artificial planet under various light conditions. Forty-seven tabulated positions of Mars are given in the system of base stars in the Y catalog. The positions of Mars obtained were compared with the ephemeris in the Astronomical Year Book of the USSR and also with the tentative ephemeris of Mars by G. M. Clemence and R. L. Duncombe. The root-mean square error of one position calculated on the basis of a comperison with the ephemeris was  $|\sigma_0 = \pm 0^{\circ}.36$ ;  $\sigma_0 = \pm 0^{\circ}.27$ . Bibliography of 9 titles. Translation of abstract

SUB CODE: 03

UDC: 522.71:523.43

ACC NR. AR6019470

SOURCE CODE: UR/0269/66/000/002/0017/0017

AUTHOR: Kiseleva, T. P.

TITLE: Photographic observations of Mars carried out at Pulkovo Observatory using a short focal-length astrograph \?

SOURCE: Ref. zh. Astronomiya, Abs. 2.51.141

REF SOURCE: Izv. Gl. astron. observ. v Pulkove, v. 22, no. 6, 1965, 247-255

TOPIC TAGS: Mars planet, astrograph, planetary photography

ABSTRACT: Photographic observations of Mars were carried out from November 1960 to April 1961 with the aid of a short focal-length astrograph (D = 100 mm, F = 710 mm). The brightness of Mars was reduced by thin gelatine filters placed in plate holders in front of the plates. In the photographs taken Mars appeared as a 6-7m star. The effect of the phase of Mars was taken into account. It was investigated by taking photographs of an artificial planet under various light conditions. Forty-seven tabulated positions of Mars are given in the system of base stars in the Y catalog. The positions of Mars obtained were compared with the ephemeris in the Astronomical Year Book of the USSR and also with the tentative ephemeris of Mars by G. M. Clemence and R. L. Duncombe. The root-mean square error of one position calculated on the basis of a comperison with the ephemeris was |  $\sigma_{\alpha} = \pm 0^{\circ}$ , 36;  $\sigma_{\delta} = \pm 0^{\circ}$ , 27. Bibliography of 9 titles. Translation of abstract/

SUB CODE: 03 Card 1/1

UDC: 522.71:523.43

**APPROVED FOR RELEASE: 09/17/2001** 

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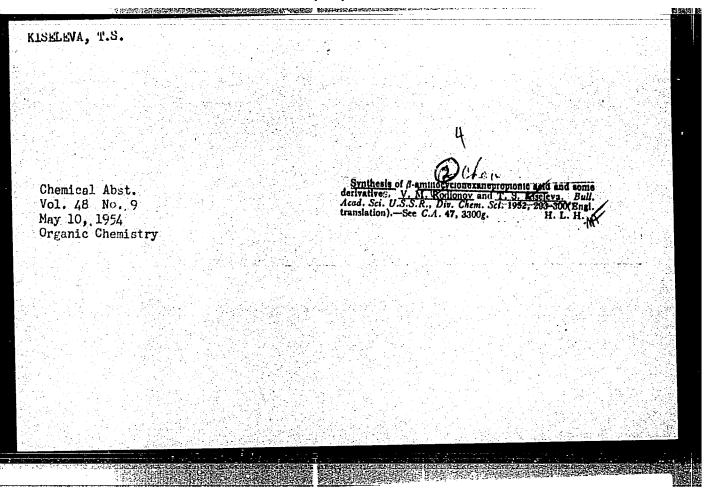
MISELEVA, T. S.

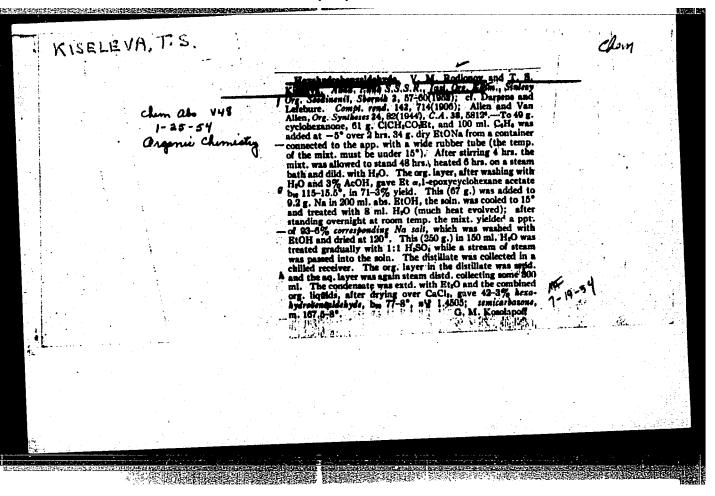
Dissertation: "Synthesis of Betha-Cyclohexyl-Betha-Aminopropionic Acid and its Certain Derivatives." 15/12/50

Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev.

SO Vecheryaya Moskva

Sum 71





# IL'INSKIY, B.V.; KISELEVA, T.S.

Results of application of exhausmeter in clinical internal diseases; preliminary communication. Ter. arkh., Moskva 24 no.4:45-52 July-Aug 1952. (CIML 23:2)

1. Of the Hospital Therapeutic Clinic of First Leningrad Medical Institute imeni I. P. Pavlov and of the Therapeutic Sector -- (Head -- Prof. M. V. Chernorutskiy, Active Member AMS USSR), Institute of Physiology imeni I. P. Pavlov (Director -- Academician E. M. Bykov) of the Academy of Sciences USSR.

KISELE	EVA, V.	
M. X. and Market St. Market	Using VP-4 meisture testers for determining Mukelev.prem.22 me.5:26-27 My '56.	the meisture in corn. (MLRA 9:9)
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	(Meisture) (Corn (Maise))	
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24(3) AUTHOR:

Kiseleva, V. A.

SOV/55-58-6-9/31

TITLE:

Investigation of the Temperature Influence Upon the Faraday Effect in the Centimeter Wave Range (Izucheniye vliyaniya temperatury na effekt Faradaya v diapazone santimetrovykh

voln)

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958 % Nr 6, pp 65-70 (USSR)

ABSTRACT:

In this paper investigations are carried out of the rotation of the polarization plane of the  $H_{11}$ -wave in magnesium-manganese ferrites of the composition  $Mn_{1}Mg_{1-x}Fe_{2}O_{4}$  at temperatures of from -196 to +220°; the x had the values 0.0, 0.15, 0.2, 0.3, 0.75 and 1.0. The measurements were carried out on the wave length of 3.2 cm. The following was measured: The angle of rotation of the polarization plane, the ellipticity and the damping of the wave (Table 1 for x = 0.75). A constant magnetic field was applied to the samples in the direction of the wave passing through. On another device, the saturation magnetization within the given interval of temperature and the specific resistance were, in addition, measured at

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Investigation of the Temperature Influence Upon the Faraday Effect in the Centimeter Wave Range

room temperature (Tables 2, 3). The block scheme of the experimental device is shown by figure 1. The angle of rotation was measured by turning the detector knob, and an amplifier of the type 28-I was used as indicator. Ellipticity and damping were measured by means of a calibration attenuator. From measurements of the angle of rotation (Fig 1) the following may be seen: The largest angle of rotation in a field of 400 Oe is obtained by manganese ferrite. In the samples x = 0, 0.15 and 0.3 a similar dependence is found. The resonance range shifts with increasing temperature in the direction of lower field values (Fig 3). For the sample with x = 0.75the angle of rotation increases with increasing temperature. The two effects observed with respect to the dependence of the variation of the angle of rotation with temperature are believed to be due to the following causes: 1) In pure manganese ores a reduction of the difference occurs if temperature rises, with a decrease

Card 2/3

in the permeability for circularly polarized waves. 2) Here the case of the inverse effect according to reference 4 is

Investigation of the Temperature Influence Upon the Faraday Effect in the

ascribed to the reduction of crystalline anisotropy occurring with an increase in temperature and to the magnetic structure of the ferrite. There are 5 figures, 3 tables, and 4 references, 1 of which is Soviet.

ASSOCIATION: Kafedra magnetizma

(Chair for Magnetism)

SUBMITTED: November 10, 1957

Card 3/3

AUTHORS:

Kiseleva, V. A., Kondorskiy, Ye. I. 20-119-5-23/59

TITLE:

Investigation of the Temperature Dependence

of Some Properties of Ferrites Within the Range of

Centimeter Waves (Izucheniye temperaturnykh zavisimostey nekotorykh svoystv ferritov v diapazone santimetrowykh voln)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 5,

PP 926-928 (USSR)

ABSTRACT:

The aim of the present paper is the investigation of the rotation of the polarization plane of a wave of the length

3,2 cm in the nickel-magnesium ferrites Ni 1-x Mg Fe 204 at temperatures of from -196° to +220°. The following magnitudes were measured: The angle of rotation of the polarization plane, the ellipticity and the attenuation

of the wave that passed the ferrite sample. On this occasion the ferrite sample was in a constant longitudinal magnetic field. The composition of the ferrite samples

corresponded to the following values: x: 0,2; 0,3; 0,5; 0,75; 1. The block scheme of the apparatus is shown by a

Card 1/3

Investigation of the Temperature Dependence of Some Properties of Ferrites Within the Range of Centimeter Waves

20-119-5-23/59

diagram. The magnetic fields in the apparatus were caused by a solenoid, and a 51-I generator served as supply feed. The amplifier 28-4 served as indicator, with an analizer head connected to it. The measuring of the angle of rotation of the polarization plane was carried out by rotation of the analizer head. The ellipticity and the attenuation were measured by means of a calibrated attenuator using the substitution method. The attenuation was measured only up to field strengths of the order of 1200 Orsted. A diagram shows the dependence of the angle of rotation  $\Theta$  of the polarization plane at a field strength of 1200 Orsted, as well as the dependence of the resonance field strength on the magnitude x characterizing the composition of the ferrite. Another diagram gives the curves for the dependence of the angle 8 on the magnetic field strength at various temperatures for a sample with x = 0,3. A table contains the values of the ellipticity and of the attenuation for the same sample at various temperatures. In the investigation of other samples of the

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20-119-5-23/59

Investigation of the Temperature Dependence of Some Properties of Ferrites Within the Range of Centimeter Waves

nickel-magnesium system analogous changes of the angle of rotation of the polarization plane were observed. The fourth diagram shows curves on the dependence of the resonance field strength on the temperature for samples with x = 0,3 and x = 1. From the data given, as well as with x = 0,3 and x = 1. From the data given, as well as from the investigation of other samples is concluded that with rising temperature the resonance shifts toward smaller field strengths. This anisotropy obviously is connected with the change of the field of the anisotropy. There are 4figures, 1 table, and 6 references, 3 of which are Soviet. Moskovskiy gosudarstvennyy universitetim. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

ASSOCIATION:

PRESENTED:

SUBMITTED:

Card 3/3

October 15, 1957, by I. K. Kikoin, Member, Academy of

Sciences, USSR June 11, 1957

BATSMAHOVA, Ye.V.; ALEKSAIDROVA, P.Ya.; KISELEVA, V.A. (Moskvs)

Disulformin for treating scute dysentery, Klin.med. 35 [i.e.34]
no.1 Supplement:32 Js '57. (MIRA 11:2)

1. Iz infektsionnoy gorodskoy klinicheskoy hol'nitsy No.1 (glavnyy
vrach N.G.Zaleskver, neuchnyy rukovoditel' G.M.Kapnik)

(DYSENTERY) (SULFANIIANILIDE)

KISELEVA, V. A.

WSR/ Miscellaneous - Dump trucks

Card 1/1: Pub. 12 - 2/14

Authors: Gol'd, B. V., Cand. of Techn. Sc.; Kiseleva, V. A.; and Maydenov, B. F.

Title: Features of dump trucks with sideways tilting bodies

Periodical: Avt. trakt. prom. 3, 2-5, March 1954

Abstract: The technical characteristics of heavy-duty dump trucks with sideways and backways tilting dump-body, are described. Drawings; illustrations. and backways tilting dump-body, are described.

Institution: Acad. of Sc. USSR, Institute of Machine Construction

Submitted: ...

GOL'D, B.V., kandidat tekhnicheskikh nauk; KISELEVA, V.A.

Reducing the weight of the ZIS-150 truck. Avt.trakt.prom. no.1:3-7
(MIRA 8:4)

Ja '55.

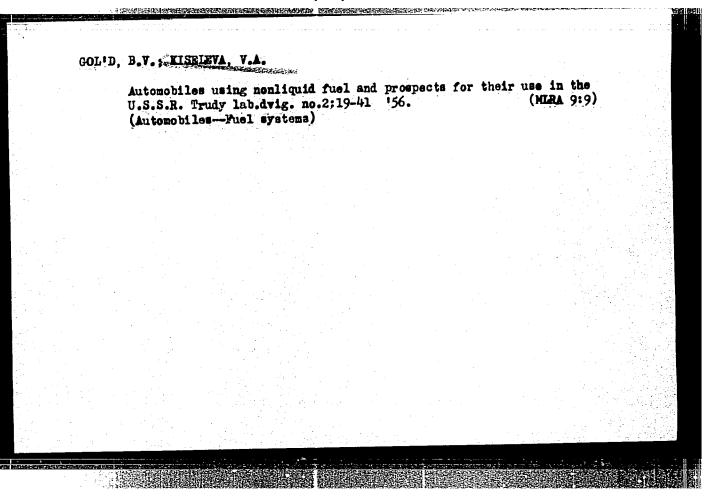
1. Laboratoriya dvigateley Akademii nauk SSSR.

(Motor trucks)

VAYS, Anatoliy L'vovich, NIKOLENKO, Viktor Filippovich; KOROLEV, Vasiliy
Kus'mich; KAIASHNIKOV, Ivan Fedorovich; KISELAVA, V.A., redaktor;
GAIAITIOHOVA, Ye.W., tekhnicheskiy redaktor

[Dump trucks with dump trailers; the practices of the 5th truck
depot of the Ohief Moscow Automobile Transportation Administration]
Samosval'nye avtoposada; iz opyta 5-1 avtobasy Glavmosavtotransa.
Moskva, Mauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 5 p.
(Truck trailers)
(Bamp trucks)

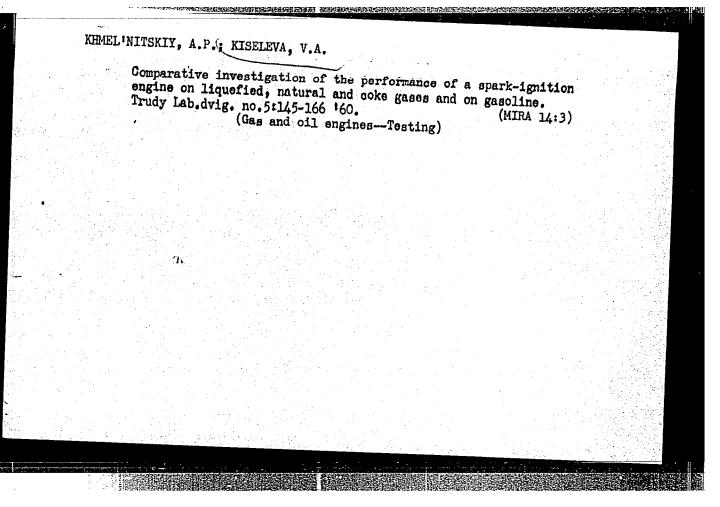
(WIRA 10:3)



GUREVICH, Matvey Yefimovich; SHEKHTER, Georgiy Yevgen'yevich; KISELEVA, V.A., red.; GALAKTIONOVA, Ye.K., tekhn.red.

[Utilizing reserve means in automotive transportation; operating practices of the trucking center of the Kiev Trust No.1 of the Ukrainian Bakery Administration] Ispol'sovanie vnutrennikh reservov avtokhozlaistva; is opyta raboty avtobay no.1 Kievskogo tresta Ukrglavkhleb. Moskva, Esuchno-tekhn.izd-vo avtotransp.lit\*ry, 1957. 71 p.

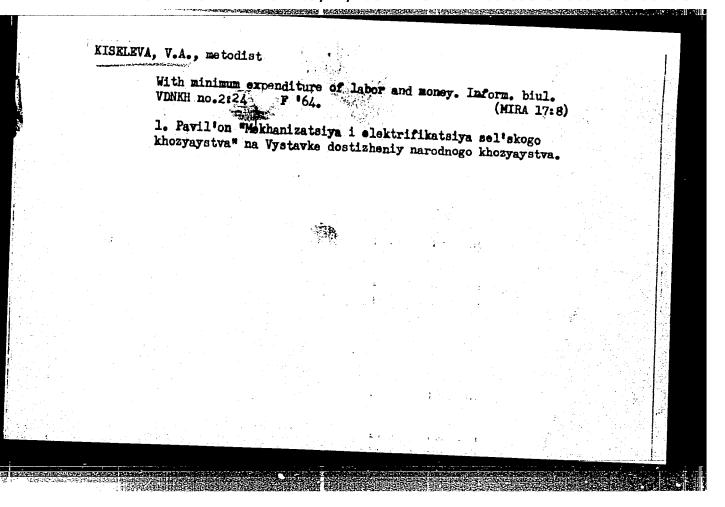
(Motortrucks--Maintenance and repair)



Wise of sulphurous fuels for diesel engines. Grudy Inst. dvig.
no.6:126-137 '62.

(Diesel fuels-Analysis)

(MIRA 16:5)



TSAPLINA, V.M.; DRESVYANNIKOVA, D.F., metodist; KISELEVA, V.A., metodist; KMET', S.K.

Exhibitions and displays of special items. Inform. biul. VDNKH no.8:25-31 Ag '64. (MIRA 17:11)

1. Glavnyy metodist po sel'skokhozyaystvennomu proizvodstvu pavil'ona "Mekhanizatsiya i elektrifikatsiya sel'skogo khozyaystva" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for TSaplina). 2. Pavil'on "Krupnyy rogatyy skot" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Dresvyannikova). 3. Pavil'on "Mekhanizatsiya i elektrifikatsiya sel'skogo khozyaystva" na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kiseleva). 4. Glavnyy veterinarnyy vrach na Vystavke dostizheniy narodnogo khozyaystva SSSR (for Kmet').

Characteristics of the formation of the hydrobiological regimen in Ust'-Kamenogorsk Reservoir. Izv. AN Kazakh. SSR. Ser. biol. nauk 3 no.6:43-46 N-D '65.

。 一种,我们就是一种,我们可以是是我们的人,我们就是我们的人,他们就是一种的人,他们就是一种的人,他们就是一个人,他们就是一个人,他们就是一个人,他们就是一个人

(MIRA 18:12)

ENT(1)/EPA(sp)-2/EPA(w)-2/EEO(t)/T/EWA(m)-2/EED(b)-3 L 27848-65 Pab-10/Pas-2/Pi-4 IJP(c) AT ACCESSION NR: AP5005225 S/0057/65/035/002/0253/0258 69 AUTHOR: Zolototrubov, I,M.; Kiselev, V.A.; Novikov, Yu.K. TITLE: Current distribution in a coaxial plasma gun WART BUT HEREDAMEN TO FILE SOURCE: Zhurnal tekhnicheksoy fiziki, v.35, no.2, 1965, 253-268 TOPIC TAGS: plasma, plasma acceleration, plasma gun, current distribution, plasma ABSTRACT: The current distribution within a coaxial plasma gun was determined, high-speed streak photographs of the luminosity within the gun were obtained, and the velocities of the plasma bursts issuing from the gun were measured. The investigations were undertaken in order to clarify the mechanism of plasma acceleration within the gun. The plasta gun was 66 cm long and the outer and inner diameters were 6.5 and 3 cm, respectively. Hydrogen was admitted through an opening in the center of the outer elect: de, and the gun was fired by a 20 kV discharge of a 12 microfarad capacitor bank. The maximum discharge current was 105 kA. The current within the gun was measured with the aid of a magnetic probe consisting of two identical coils cornected in series opposition and mounted with their centers

L'27848-65 ACCESSION NR: AP5005225

7 mm apart. The velocities of the ejected plasma bursts were determined by measuring the flight time between two external magnetic probes 50 cm apart. The authors have described their apparatus and methods in more detail elsewhere (ZhTF 34,998, 1964). When the delay between gas admission and capacitor discharge was small (100 microsec) only one principal current sheet was formed which, beginning at the center of the gun, moved toward the mouth at about 1.5 x 107 cm/sec. When the delay was longer, a second current sheet formed nearer the mouth and moved forward much more slowly. The streak photographs also revealed an ionized (luminous) sheet moving in the opposite direction at nearly 108 cm/sec. When the delay was greater than 300 microsec, only one burst was observed to issue from the gun, and the velocity of this burst was roughly equal to that of the current sheet (c.1.5 x 107 cm/sec). With shorter delays two bursts were observed, of which one traveled with the velocity of the current sheet and the other traveled up to 7 times more rapidly. It is concluded that the slower plasma burst is accelerated by the magnetohydrodynamic force responsible for the motion of the current sheet, but that the faster bursts must be accelerated by a different mechanism. It is suggested that drift forces on the plasma in the crossed fields within the gun may be involved and a mechanism whereby these forces might accolerate the plasma to high velocities is discussed briefly. Origiart.has: 6 figures

Card 2/3

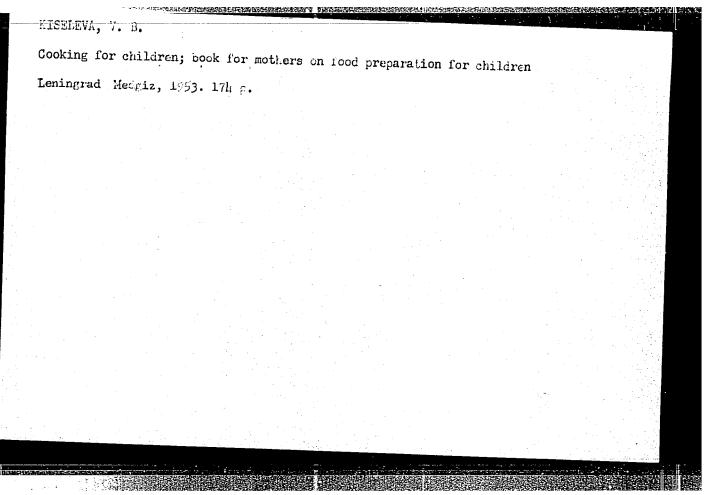
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		p = 1		

KISELEVA, V.B.; VAIL, V.S.

[Cooking for children; a book for mothers on the preparation of food for children] Dytiacha kukhnia; knyha dlia materiv pro pryhotovliannia izhi ditiam. Kyiv, Derzh. medychne vyd-vo URSR, 1955. 171 p.

(CHILDREN-NUTRITION)

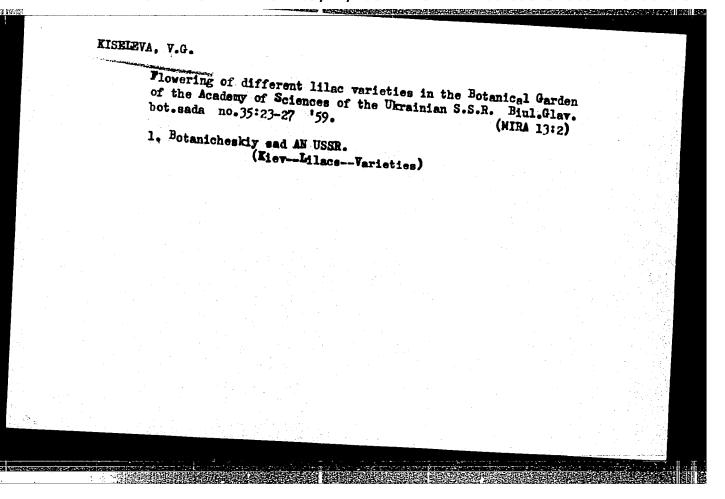
(CHILDREN-NUTRITION)



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KISHIBVA, V.B.; VAYL, V.S., professor, redaktor; KUDAKOV, A.V., redaktor; RUIEVA, M.S., tekhnicheskiy redaktor

[Cooking for children; a book for mothers on the preparation of food for children] Détskaia kukhnia; kniga dlia materei o prigotovlenii pishchi detiam. Pod red. V.S.Vail<sup>1</sup>. [Leningrad] Cos. izd-vo med. lit-ry. Leningradskoe otd-nie. 1956. 174 p. (MLRA 9:11) (CHILDREN-MUTRITION)



# KISELEUA, U.T.

USSR / Weeds and Weed Control. Herbicides.

M

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69510

Author Title

: Peterburgskiy, A.V., Semenova, N.K., Kiseleva, V.I. 3 Use of Herbicides for Combatting Weeds in Turnipy Onions

: Zemledelie, 1956, No 11, 71-74 Orig Pub

Abstract : The treatment of onion sowings after sprouting was conducted by solutions of a triethanolamine salt of dinitrophenol (I) and naphthylphthalaminic acid (II) (in the text it is erroneously named naphthylaminophthalic acid which is not a herbicide). The onions were in the two-leaf stage, and the weeds in the period of budding and blooming. The consumption of solution I of 1000 l/hectare was tested in doses of 8, 15, 16 kg/hectare of the 50% herbicide. Solution II was tested in doses of 6.2; 9.2; 12.3 kg/hectare of the 65% herbicide. The presprouting treatment was conducted by dusting

Card 1/3

USSR/Weeds and Weed Control. Herbicides.

M

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69510

Abs the PRROVED FOR RELEASE: 09/17/2001 CIA-RDP86-UU51 Isopropyl phenyl carbamate (IPC) (III) and naph thyl-CIA-RDP86-00513R000722810020phthalaminic acid (IV). The onions were in the stage of cotyledonous leaf. Doses of III and IV--5; 9.5; 10 kg/hectare of active substance. The effect of II quickly manifested itself. Most sensitive are the weeds of the compositae and chenopodium families (sow-thistle, ragwort, goosefort, pigweed). I destroyed weeds of the convolvulus, labiate, cruciferous and compositar, families. A strong action is exerted on chic-weed. The cereals showed no reaction at all to I. Onions suffered most from the sprinkling by I after the appearance of sprouts. I was also used under winter sowings of garlic in the stage of 6-7 leaves in doses of 8 and 16 kg/hectare. In cultivations of 8centners/hectare, the yield of garlic was greater by lh centners, and in cultivation with 16 kg/hectare, greater by 8 centners/hectare by comparison with a control without weeding. The greatest

Card 2/3

USSR/Weeds and Weed Control. Herbicides.

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69510

Abstract : interest is afforded by III and IV, which destroy weeds at the moment of sprouting

N

USSR/Weeds and Weed Control.

KISELEVA V.I.

Abs Jour : Ref Zhur - Biol., No 9, 1958, No 39615

: Peterburgskiy A.V., Semenove N.K., Kiseleve V.I : Moscow Agricultural Academy Imeni K.A. Th dryozev Inst : On the Chemical Weeding of Onions and Carlie Title

Orig Pub : Dokl. Mosk. s.-kh akad. in. K.A. Timiryazava, 1956, vyp.

25, 197-203

.bstract : Good results were obtained in experiments, conducted on sowings of the Gribov selection station, from application of triethanolamine salt of dinitrophenol at the 0.4-0.6 percent solution concentration, and also from the application of dusts of isopropylphenylcarberate and naphthylaminophthalic acid before the appearance of onion sprouts. -- Z.I. Murbitskiy

Card : 1/1

11

# KISELRYA, V.I.

Effect of mineral waters from spring No.2 at Sol'vychegodsk on gastric secretion. Vop.kur. fizioter. i lech.fiz.kul't. 23 no.2: 114-118 Mr-Ap '58. (MIRA 11:6)

1. Iz kafedry normal\*noy fiziologii (zav. - prof. M.G.Zaikina)
Arkhangel\*skogo meditainskogo instituta.
(SOL\*VYCHEGODSK--MINERAL WATERS)
(STOMACH--SECRETION)

ZAKHAROV, N.D.; Prinimali uchastiye: BYKOVA, S.A.; KISELEVA, V.I.;

KISELEVA, N.I.; KRYLOVA, N.O.; MAKAROVA, L.V.

Nonsulfur vulcanization of some synthetic rubbers. Part 4:
Effect of the nitrile group content on the thermal vulcanization of butadiene nitrile rubbers. Vysokom.soed. 5 no.8:1190-1195
Ag '63. (MIRA 16:9)

1. Yaroslavskiy tekhnologicheskiy institut.
(Rubber, Synthetic) (Vulcanization)
(Nitrile rubbers)

KISELEVA, V. I.

USSR/Medicine-Neuropathclogy Medicine-Chorea, Therapy

Feb 49

"Honey Treatment for Chorea (St Vitus' Dance)," N. K. Bogolepov, V. I. Kiseleva, Nerous Diseases Dept, Hosp imeni Ostroumov, 2 p

"Sov Med" No 2

Reweals effective treatment with honey for chorea in cases where other methods have failed. Claims that choreatic hyperkinesis disappears gradually, sleep is restored, and emotional condition is improved (patient becomes more restful). Concludes that, though honey treatment gave excellent results in most cases it is more effective if combined with hydro-therapy and medicinal preparations.

PA 46/49T67